List of images in machine:

```
Microsoft Windows [Version 10.0.19042.964]
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C:\WINDOWS\system32>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE

C:\WINDOWS\system32>
```

Image search

Administrator: Command Prompt			×
C:\WINDOWS\system32>docker search ubuntu NAME CIAL AUTOMATED	DESCRIPTION	STARS	OFFI
ubuntu	Ubuntu is a Debian-based Linux operating sys	12229	[OK]
dorowu/ubuntu-desktop-lxde-vnc [OK]	Docker image to provide HTML5 VNC interface \dots	528	
websphere-liberty	WebSphere Liberty multi-architecture images \dots	270	[OK]
rastasheep/ubuntu-sshd [OK]	Dockerized SSH service, built on top of offi	251	
consol/ubuntu-xfce-vnc [OK]	Ubuntu container with "headless" VNC session…	240	
ubuntu-upstart	Upstart is an event-based replacement for th	110	[OK]
ansible/ubuntu14.04-ansible [OK]	Ubuntu 14.04 LTS with ansible	98	
land1internet/ubuntu-16-nginx-php-phpmyadmin-mysql-5	ubuntu-16-nginx-php-phpmyadmin-mysql-5	50	
open-liberty	Open Liberty multi-architecture images based	45	[OK]
ubuntu-debootstrap	$\label{lem:debootstrap} \mbox{variant=minbasecomponents=m}$	44	[OK]
i386/ubuntu	Ubuntu is a Debian-based Linux operating sys	25	
solita/ubuntu-systemd [OK]	Ubuntu + systemd	24	
nuagebec/ubuntu [OK]	Simple always updated Ubuntu docker images w	24	
landlinternet/ubuntu-16-apache-php-5.6	ubuntu-16-apache-php-5.6	14	~

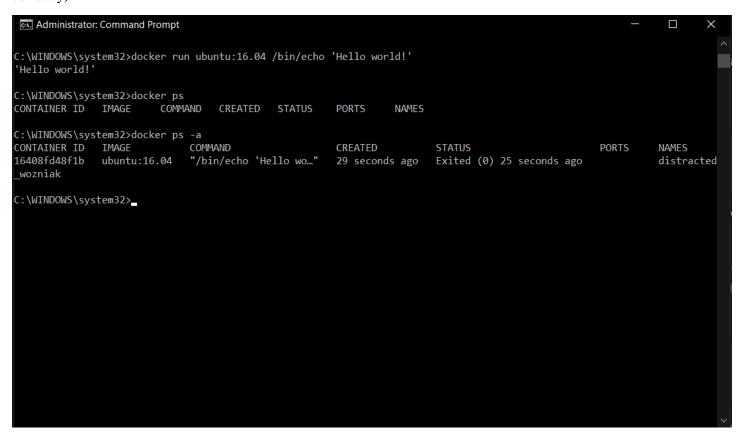
Pulling an image of Ubuntu 16.04 and Ubuntu 16.10

```
Administrator: Command Prompt
                                                                                                                 C:\WINDOWS\system32>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Pull complete
fb52bde70123: Pull complete
64788f86be3f: Pull complete
33f6d5f2e001: Pull complete
Digest: sha256:eed7e1076bbc1f342c4474c718e5438af4784f59a4e88ad687dbb98483b59ee4
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04
C:\WINDOWS\system32>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10
C:\WINDOWS\system32>_
```

Remove Ubuntu 16.10 image and an updated list of the images in the machine

```
Administrator: Command Prompt
                                                                                                                C:\WINDOWS\system32>docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e
C:\WINDOWS\system32>docker images
REPOSITORY
             TAG
                       TMAGE TD
                                      CREATED
                                                    SIZE
                       aefd7f02ae24
ubuntu
             16.04
                                     2 weeks ago
                                                    134MB
C:\WINDOWS\system32>_
```

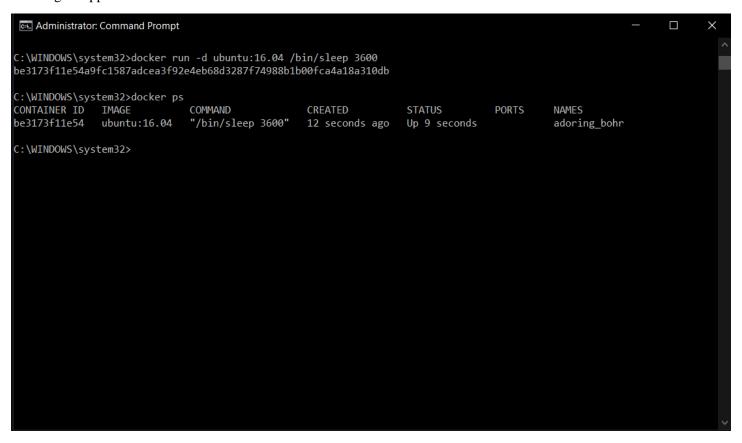
Running a "Hello World" application using a container from the Ubuntu 16.04 image (not sure if I used the terms correctly)



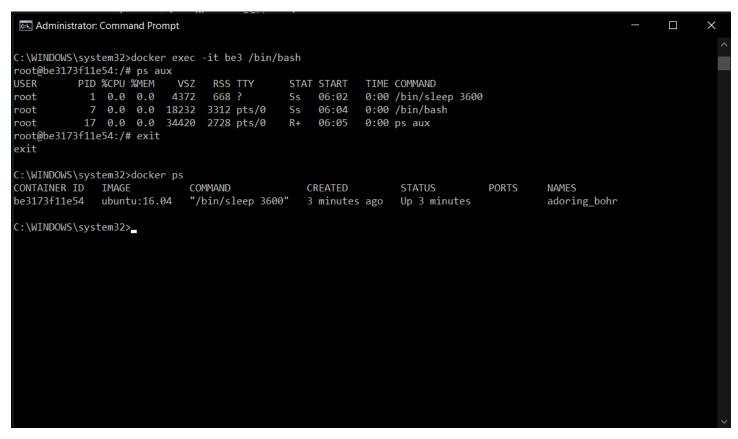
Running a bash session in the container

```
Administrator: Command Prompt
                                                                                                               X
C:\WINDOWS\system32>docker run ubuntu:16.04 /bin/bash
C:\WINDOWS\system32>docker ps -a
CONTAINER ID
              IMAGE
                             COMMAND
                                                      CREATED
                                                                                                   PORTS
                                                                                                             NAMES
                              "/bin/bash"
70f116ccd58a
              ubuntu:16.04
                                                                       Exited (0) 17 seconds ago
                                                                                                             distracted
                                                      22 seconds ago
_boyd
16408fd48f1b
              ubuntu:16.04
                             "/bin/echo 'Hello wo..."
                                                      3 minutes ago
                                                                       Exited (0) 3 minutes ago
                                                                                                             distracted
_wozniak
C:\WINDOWS\system32>docker run -it ubuntu:16.04 /bin/bash
root@5cc59ea2558a:/# pwd
root@5cc59ea2558a:/# ls
                          lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@5cc59ea2558a:/# exit
exit
C:\WINDOWS\system32>_
```

Running an application in detached mode



Executing commands within an active container using exec



Stopping a docker container

	stem32>docker s					
WINDOWS\sy: TAINER ID	stem32>docker p: IMAGE	s -a COMMAND	CREATED	STATUS	PORTS	NAMES
173f11e54	ubuntu:16.04	"/bin/sleep 3600"	6 minutes ago	Exited (137) 21 seconds ago	FORTS	adoring
59ea2558a in	ubuntu:16.04	"/bin/bash"	10 minutes ago	Exited (0) 9 minutes ago		fervent
16ccd58a oyd	ubuntu:16.04	"/bin/bash"	10 minutes ago	Exited (0) 10 minutes ago		distra
8fd48f1b ozniak	ubuntu:16.04	"/bin/echo 'Hello wo"	13 minutes ago	Exited (0) 13 minutes ago		distra
/INDOWS\sys	stem32>_					

Removing containers. I had to use PowerShell here due to an error encountered in CMD

```
Administrator: Command Prompt - powershell
                                                                                                                   C:\WINDOWS\system32>docker rm $(docker ps -a -q)
unknown shorthand flag: 'a' in -a
See 'docker rm --help'.
C:\WINDOWS\system32>powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID
                               COMMAND
                                                        CREATED
                                                                          STATUS
                                                                                                        PORTS
                                                                                                                  NAMES
               ubuntu:16.04
                              "/bin/sleep 3600"
                                                                          Exited (137) 3 minutes ago
be3173f11e54
                                                        9 minutes ago
                                                                                                                   adoring_b
ohr
5cc59ea2558a
                               "/bin/bash"
                                                                          Exited (0) 12 minutes ago
               ubuntu:16.04
                                                        13 minutes ago
                                                                                                                   fervent_r
ubin
               ubuntu:16.04
                              "/bin/bash"
                                                                          Exited (0) 14 minutes ago
70f116ccd58a
                                                        14 minutes ago
                                                                                                                   distracte
d_boyd
16408fd48f1b
               ubuntu:16.04
                              "/bin/echo 'Hello wo..."
                                                        17 minutes ago
                                                                          Exited (0) 17 minutes ago
                                                                                                                   distracte
d_wozniak
PS C:\WINDOWS\system32> <mark>docker rm $(docker</mark> ps -a -q)
be3173f11e54
5cc59ea2558a
70f116ccd58a
16408fd48f1b
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID IMAGE
                         COMMAND
                                   CREATED
                                              STATUS
                                                        PORTS
                                                                   NAMES
PS C:\WINDOWS\system32>
```